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(54) MANUFACTURE OF SEPARATOR FOR ALKALINE BATTERY

(57)Abstract:

PURPOSE: To obtain a separator for an alkaline battery which has a good charge-and-discharge life characteristic by mixing a polyolefin with an extracted matter and a nonionic surface active agent, forming the mixture into a film, and subjecting the film to extraction treatment.

CONSTITUTION: After 55 parts of paraffin with a melting point of 68~71°C, 8 parts of a fatty-acid-amide-system surfactant and 0.5 parts of hindered-phenol- system antioxidant are added to 100 parts of ethylene-propylene block copolymer (containing 13wt% of ethylene) with a melt index of 0.3, the mixture is kneaded with a kneader at a resin temperature of about 180°C for 20min. Next, after the kneaded mixture is formed into a film with 40 μ thickness by means of an electric heating press, the film is subjected to extraction treatment by being immersed in benzene at ordinary temperature for 16hr. After that, the film is dried. By the means mentioned above, an alkali-proof alkali-oxidation-proof heat-proof separator which has excellent electric and mechanical characteristics and has a low cost, can be obtained. Consequently, the charge-and-discharge life characteristic of an alkaline battery can be enhanced by using such a separator.

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